

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 7,124,069 B2
 APPLICATION NO. : 10/630439
 DATED : October 17, 2006
 INVENTOR(S) : Meuris et al.

Page 1 of 5

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column	Line	Description of Error
Title Page (56) Col. 2 (Other Publications)	2	Delete "differentail" and insert -- differential --, therefor.
Title Page (56) pg 2 Col. 1 (Other Publications)	2	Delete "differentail" and insert -- differential --, therefor.
1	12	Delete "entirely," and insert -- entirety;--, therefor.
1	22	Delete "entirely." and insert -- entirety. --, therefor.
7	13	Delete "susceptibility," and insert -- susceptibility, --, therefor.
9	64	After "vector." delete "the" and insert -- The --, therefor.
12	27 (Approx.)	Delete "sows" and insert -- shows --, therefor.
13	5	After "direction" insert -- . --.
18 (Equation 30)	43 (Approx.)	Delete " $-\nabla \cdot (\epsilon \nabla V + \epsilon \frac{\partial A}{\partial t} + \epsilon \frac{\partial \nabla X}{\partial t}) = \rho$ " and insert $-\nabla \cdot (\epsilon \nabla V + \epsilon \frac{\partial A}{\partial t} + \epsilon \frac{\partial \nabla X}{\partial t}) = \rho$ --, therefor.
18 (Equation 31)	46 (Approx.)	Delete " $J - \epsilon \frac{\partial}{\partial t} (\nabla V)$ " and insert $J - \epsilon \frac{\partial}{\partial t} (\nabla V)$ --, therefor.
18 (Equation 33)	61 (Approx.)	Delete " $\nabla \cdot (\rho \nabla v) = -\rho$ " and insert -- $\nabla \cdot (\epsilon \nabla v) = -\rho$ --, therefor.
18 (Equation 34)	63 (Approx.)	Delete " $J - \epsilon \frac{\partial}{\partial t} (\nabla V)$ " and insert $J - \epsilon \frac{\partial}{\partial t} (\nabla V)$ --, therefor.

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Column	Line	<u>Description of Error</u>
19	35	Delete "co." and insert -- ω . --, therefor.
19 (Equation 36)	38 (Approx.)	Delete " $\nabla \cdot (\epsilon \nabla V) = -\rho$ " and insert -- $\nabla \cdot (\epsilon \nabla V) = -\rho$ --, therefor.
19 (Equation 37)	42 (Approx.)	Delete " $J - j\omega \epsilon \nabla V + \epsilon \omega^2 A + \epsilon \omega^2$ " and insert -- $J - j\omega \epsilon \nabla V + \epsilon \omega^2 A + \epsilon \omega^2 \nabla \chi$ --, therefor.
19	66	Delete " $\zeta = \zeta_0 - \zeta e^{i\omega t}$ " and insert -- $\zeta = \zeta_0 - \zeta e^{i\omega t}$ --, therefor..
20 (Equation 50)	61 (Approx.)	Delete " $\nabla \cdot (\epsilon \nabla \hat{V}) - \hat{\rho} = 0$ " and insert -- $\nabla \cdot (\epsilon \nabla \hat{V}) - \hat{\rho} = 0$ --, therefor.
20 (Equation 51)	63 (Approx.)	Delete " $j\omega \epsilon \nabla \hat{V} -$ " and insert -- $j\omega \epsilon \nabla \hat{V} -$ --, therefor.
22 (Equation 66)	60	Delete " $\int_{\Delta L_{ij}} \nabla V \cdot dS \sim V_j - V_i$ " and insert -- $\int_{\Delta L_o} \Delta V \cdot dl \sim V_j - V_i$ --, therefor.
23 (Equation 67)	13 (Approx.)	Delete $\sim \frac{\Lambda_U}{\mu_0} A_U + \sum_{kl}^{12} \frac{\Lambda_{kl}}{\mu_0} A_{kl}$ " and insert $\sim \frac{\Lambda_U}{\mu_0} A_U + \sum_{kl}^{12} \frac{\Lambda_{kl}}{\mu_0} A_{kl}$ --, therefor.
23 (Equation 68)	23 (Approx.)	Delete " $\int_{A_{kl}} \nabla \cdot (\epsilon \nabla V) dV = \int_{A_{kl}} \epsilon \nabla V \cdot dS - \sum_i S_{ik} \frac{V_k - V_l}{L_k}$ " and $\sim \int_{A_{kl}} \nabla \cdot (\epsilon \nabla V) dV = \int_{A_{kl}} \epsilon \nabla V \cdot dS - \sum_i S_{ik} \frac{V_k - V_l}{L_k}$ --, insert therefor.

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23 (Equation 70)	44 (Approx.)	Delete “($\nabla \cdot (\rho \Delta v)$)” and insert -- ($\nabla \cdot (\epsilon \nabla v)$) --, therefor.
23 (Equation 73)	61 (Approx.)	Delete “ $j\mu_0 S_{ij} S_{ij}$ ” and insert -- $j\mu_0 \omega \epsilon_{ij} S_{ij}$ --, therefor.
23 (Equation 74)	65	Delete “ $S_{ik} e_{ik}$ ” and insert -- $S_{ik} \epsilon_{ik}$ --, therefor.
24 (Equation 77)	21 (Approx.)	Delete “ $-S_{ij}($ ” and insert -- $\sigma_{ij}($ --, therefor.
24 (Equation 80)	53 (Approx.)	Delete “ $\frac{j_{ij}}{\mu_0} = -\frac{a}{h_y} B\left(\frac{-\beta_{ij}}{a}\right) c_i + \frac{a}{h_y} B\left(\frac{\beta_{ij}}{a}\right) c_j$ ” And $\frac{j_{ij}}{\mu_0} = -\frac{a}{h_y} B\left(\frac{-\beta_{ij}}{a}\right) c_i + \frac{a}{h_y} B\left(\frac{\beta_{ij}}{a}\right) c_j$ Insert $\frac{j_{ij}}{\mu_0} = -\frac{a}{h_y} B\left(\frac{-\beta_{ij}}{a}\right) c_i + \frac{a}{h_y} B\left(\frac{\beta_{ij}}{a}\right) c_j$ --, therefor.
25	66 (Approx.)	Delete “FIG.” and insert -- FIGS. --, therefor.
27	64 (Approx.)	Delete “Amperes” and insert -- Ampere’s --, therefor.
27	66 (Approx.)	Delete “=I ¹ .” and insert -- =I ⁽¹⁾ . --, therefor.
29	17	Delete “Hehnholz” and insert -- Helmholtz --, therefor.
31	45 (Approx.)	Below “struct cubeListPointer *next;” insert -- }; --.
32 (Equation 94)	39 (Approx.)	Delete “ $\nabla \times \nabla \times A_R \mu_o \epsilon \omega^2 A_R \mu_o \epsilon \omega \nabla$ ” insert -- $\nabla \times \nabla \times A_R \mu_o \epsilon \omega^2 A_R \mu_o J_R \mu_o \epsilon \omega \nabla$ --, therefor.

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Column	Line	Description of Error
37	38	Delete “subtractions)=as” and insert -- subtractions) as --, therefor.
38	20-21 (Approx.)	Delete “ $X^O(10-14)$.” and insert -- $X^O(10^{-14})$. --, therefor.
38	54	Delete “ $10^{-8}\Omega m^{-8}$.” and insert -- $10^{-3}\Omega m$. --, therefor.
39	31 (Approx.)	After “with” delete “I” and insert -- I --, therefor.
39	34 (Approx.)	Delete “ $L=[(\mu_0\ln(b/a))/(2\pi)]$.” and insert -- $L=[(\mu_0\ln(b/a))/(2\pi)]$. --, therefor.
42	9	Delete “ I^{189} ,” and insert -- I_{89} , --, therefor.
42	17 (Approx.)	Delete “ d_7xI_{19} ” and insert -- d_7+I_{19} --, therefor.
43	26	Delete “ 2^n ” and insert -- 2^n --, therefor.
47	7 (Approx.)	Before “second” delete “the”.
50	42 (Approx.)	Delete “succesive” and insert -- successive --, therefor.

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Column	Line	Description of Error
53	1	In Claim 9, delete "A apparatus" and insert -- An apparatus --, therefor.

Signed and Sealed this
Twenty-ninth Day of January, 2008



JON W. DUDAS
Director of the United States Patent and Trademark Office